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11	В	4,707,440	11/1987	Stavrianopou	ulos	435		6		
	С	4,711,955	12/8/87	Ward, et al.						<del>-</del>
	D	4,755,458	7/5/88	Rabbani, et a	al.					
	E	4,849,513	7/18/89	Smith, et al.				27	<u> </u>	
	F	4,868,103	9/19/89	Stavrianopoulos, et al.						
	G	4,894,325	1/16/90	Englehardt, et al.						
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NSA	1	Alleman, K.S Chem., 100			al Rectification at a M	onola	yer-l	Modified Ele	ctrode," J.	Phys.
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11	INFORMATION DISCLOSURE				SURE	ATTY. DOCKET NO. A-64558-1/RFT/RM	S	SERIAL NO. 08/873,597			
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M 5H		a	5,082,830	1/21/92	Brakel, et al.			_			
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	M	5	5,278,043	1/11/954	Bannwarth,	et al.	536	3	23.1	···	
	4	U	5,312,527	5/17/94	Mikkelsen, e	t al.	204	1	153.12		
1	_	V	5,328,824	7/12/94	Ward, et al.		1				
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	X	\$	5,495,908	1/21/97	Fawcett, et a	al.	534	1	11		
11	0	AA	5,565,552	10/15/96	Magda, et al	•	534	1	11		
		BB	5,573,906	11/12/96	Bannwarth,	et al.	435	435 6		<del></del>	
	7	СС	5,591,578	1/7/97	Meade, et al		435	5	6		
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JAN 2 6	1000	PTO-1449	FILING DATE June 2, 1997	GROUP Not Assigned				
	SS SS	OTHER DOCUMENTS (Including A	Author, Title, Date, Pertine	ent Pages, Etc.)				
5H MADE	ARYSON	Barisci, et al., "Conducting Polymer S	Sensors," <i>TRIP</i> , 4(9):307-3	311 (1996).				
	4	Baum, R. M., "Views on Biological, L (1993).	Baum, R. M., "Views on Biological, Long-Range Electron Transfer Stir Debate," <i>C&amp;EN</i> , pp 20-23 (1993).					
	5	Bechtold, R., et al., "Ruthenium-Modified Horse Heart Cytochrome c: Effect of pH and Ligation or the Rate of Intramolecular Electron Transfer between Ruthenium(II) and Heme(III)," J. Phys. Chem. 90(16):3800-3804 (1986).						
	6	Bidan, "Electroconducting conjugated polymers: new sensitive matrices to build up chemical or electrochemical sensors. A Review.," Sensors and Actuators, B6:45-56 (1992).						
	7	Biotechnology and Genetics: Genetic Screening Integrated Circuit," <i>The Economist</i> (February 25-March 3, 1995).						
	8	Boguslavsky, L. et al., "Applications of redox polymers in biosensors," Solid State Ionics, 60:189-197 (1993).						
	9	Bowler, B. E., et al., "Long-Range Ele Proteins," <i>Progress in Inorganic Chem</i>		· ·				
	10	Brun, A. M., et al., "Photochemistry of Soc., 113:8153-8159 (1991).	of Intercalated Quaternary	Diazaaromatic Salts," J. Am. Chem.				
	11	Bumm, et al., "Are Single Molecular \	Wires Conducting?," Scien	nce 271:1705-1707 (1996).				
	12	Cantor, C.R. et al., "Report on the Se 1383 (1992).	equencing by Hybridization	Workshop," Genomics, 13:1378-				
	13	Chang, I-Jy, et al., "High-Driving-Ford Oxidation of Ferrocytochrome c by R 7057 (1991).						
	14	Chidsey, C.E.D., et al., "Free Energy Metal Electrolyte Interface," Science,	•	ence of Electron Transfer at the				
N	15	Chidsey, et al., "Coadsorption of Ferr Electroactive Self-Assembled Monola		J.				
EXAMINER	XAMINER DATE CONSIDERED 9/98							

	INFORMATION DISCLOSURE				ATTY. DOCKET NO. A-64558-1/RFT/RMS	SERIAL NO. 08/873,597				
/	<b>6</b>	\ P	E	CITATION	APPLICANT Kayyem, et al.					
(P)	JAN	AN 2 6 1998 PTO-1449		PTO-1449	FILING DATE June 12, 1997	GROUP Not Assigned				
	~	DAUG	ill.	OTHER DOCUMENTS (Including A	Author, Title, Date, Pertine	ent Pages, Etc.)				
h	51.	+	16	Chrisey, et al., "Covalent attachment Acids Research, 24(15):3031-3039 (	•	assembled monolayer films," Nucleic				
			17	Clery, "DNA Goes Electric," Science,	267:1270 (1995).					
			18	Commerce Business Daily Issue of Se	eptember 26, 1996 PSA#	1688.				
		DATABASE WPI, Derwent Publications Ltd., London, GB; AN 88-320199 & JP, A, 53 238 166 (MITSUBISHI DENKI KK), 4 October 1988.								
			20	Davis, L. M., et al., "Electron Donor Properties of the Antitumour Drug Amsacrine as Studied by Fluorescence Quenching of DNA-Bound Ethidium," ChemBiol. Interactions, 62:45-58 (1987).						
			21	Davis, L. M., et al., "Elements of biosensor construction," <i>Enzyme Microb. Technol.</i> 17:1030-1035 (1995).						
			22	Degani et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 2. Methods for Bonding Electron-Transfer Relays to Glucose Oxidase and D-Amino-Acid Oxidase," J. Am. Chem. Soc. 110:2615-2620 (1988).						
			23	Degani, Y., et al., "Electrical Communication of the Electrodes via Electrostatically and Communication of the Electrodes (1989).						
			24	Degani, Y., et al., "Direct Electrical C Metal Electrodes. 1. Electron Transf Relays, Bound Covalently to the Enzy	er from Glucose Oxidase	to Metal Electrodes via Electron				
			25	Deinhammer, R.S., et al., "Electronch the Surface Modification of glassy ca		e-containing compounds: A Route to <i>ir,</i> 10:1306-1313 (1994).				
			26	Dreyer, G. B., et al., "Sequence-spec EDTA·Fe(II)," Proc. Natl. Acad. Sci. U		nded DNA: Oligodeoxynucleotide-				
			27	Durham, B., et al., "Photoinduced Ele Bis(bipyridin) Dicarboxybipyridine Cyt		<u> </u>				
1	1		28	Durham, B., et al., "Electron-Transfer Cytochrome c Derivatives," American						
EX	AMI	NER		& Mor MS	ATE CONSIDERED Z	9/98				

	INI	ORM	IATION DISCLOSURE	ATTY. DOCKET NO. A-64558-1/RFT/RMS	SERIAL NO. 08/873,597					
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	TRADI	MARIL	OTHER DOCUMENTS (Including A	Author, Title, Date, Pertine	ent Pages, Etc.)					
M	SA	29		inetics of Zn-Substituted Cytochrome <i>c</i> and Its  1. Am. Chem. Soc., 110:429-434 (1988).						
		30	Farver, O., et al., "Long-range intramolecular electron transfer in azurins," <i>Proc. Natl. Acad. Sci. USA</i> , 86:6968-6972 (1989).							
31 Fox, L. S., et al., "Gaussian Free-Energy Dependence of Electron-Transfer Rates in Iridium Complexes," <i>Science</i> , 247:1069-1071 (1990).										
	32 Fox, M. A., et al., "Light-Harvesting Polymer Systems," C&EN, pages 38-48 (March 15, 1993).									
		Francois, J-C., et al., "Periodic Cleavage of Poly(dA) by Oligothymidylates Covalently Linked to the 1,10-Phenanthroline-Copper Complex," <i>Biochemistry</i> , 27:2272-2276 (1988).								
		34	Friedman, A. E., et al., "Molecular 'Light Switch' for DNA: Ru(bpy) <sub>2</sub> (dppz) <sup>2+</sup> ," J. Am. Chem. Soc., 112:4960-4962 (1990).							
		35	Fromherz, P., et al., "Photoinduced E Condensed Methylviologen," J. Am.							
		36	Gardner, et al., "Application of condu Actuators, A51:57-66 (1995).	ucting polymer technology	in microsystems," Sensors and					
		37	Gregg, B. A., et al., "Cross-linked red applications," <i>Anal. Chem.</i> , 62:258-2		e oxidase for amperometric biosensor					
		38	Gregg, B. A., et al., "Redox Polymer Cement: Synthesis, Characterization Chem., 95:5970-5975 (1991).							
		39	Hashimoto, et al., "Sequence-Specifi Probes and an Electrochemically Acti							
		40	Hegner, et al., "Immobilizing DNA on imaging in buffer solutions," FEBS 33		n for atomic force microscopy					
N		41	Heller, A., et al., "Amperometric bios networks," Sensors and Actuators, 1		nensional hydrogel-forming epoxy					
EX	AMINE	R	& Hour MR	ATE CONSIDERED	1/96					

INF	ORM	ATION DISCLOSURE	ATTY. DOCKET NO. A-64558-1/RFT/RMS	SERIAL NO. 08/873,597				
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JAN	2 6 1998	OTHER DOCUMENTS (Including	Author Title Date Pertin	ent Pages, Ftc )				
NSA	HADE	Heller, A., "Electrical Wiring of Redo						
	43	Heller et al., "Fluorescent Energy Tra Abstract No. 248.	ansfer Oligonucleotide Pro	bes," Fed. Proc. 46(6):1968 (1987)				
	44	1	Ho "DNA-Mediated Electron Transfer and Application to 'Biochip' Development," Abstract. Office of Naval Research (Report Date: July 25, 1991) 1-4, RR04106.					
	45	Hobbs et al., "Polynucleotides Containing 2'-Amino-2'deoxyribose and 2'-Azido-2'-deoxyriose," Biochemistry, 12(25):5138-5145 (1973).						
	46	Hsung, et al., "Synthesis and Characterization of Unsymmetric Ferrocene-Terminated Phenylethynyl Oligomers," <i>Organometallics</i> , 14:4808-4815 (1995).						
	47	Hsung, et al., "Thiophenol Protecting Groups for the Palladium-Catalyzed Heck Reaction: Efficient Syntheses of Conjugated Arylthiols," <i>Tetrahedron Letters</i> . 36(26):4525-4528 (1995).						
	48	Jenkins et al., "A Sequence-Specific Molecular Light Switch: Tebhering of an Oligonucleotide to a Dipyridophenazine Complex of Ruthenium (II), J. Am. Chem. Soc., 114:8736-8738 (1992).						
	49	Katritzky, et al., "Pyridylethylation - Tetrahedron Letters, 25(12):1223-12		d for Active Hydrogen Compounds,"				
	50	Kelley, S.O. and J.K. Barton, "Electr Electrode," <i>Bioconjugate Chem.</i> , 8:3		Blue Bound to a DNA-Modified				
	51	Kojima et al., "A DNA Probe of Ruth Chemistry Letter, pp 1889-1982 (19		Using Photocatalytic Activity,"				
	52	Laviron, E., "A.C. Polarography and Faradaic Impedance of Strongly Adsorbed Electroactive Species. Part I: Theoretical and Experimental Study of a Quasi-Reversible Reaction in the Case of a Langmuir Isotherm," <i>J. Electroanal. Chem.</i> , 97:135-149 (1979).						
	53	Laviron, E., "A.C. Polarography and Faradaic Impedance of Strongly Adsorbed Electoactive Species. Part III: Theoretical Complex Plane Analysis for a Surface Redox Reaction," <i>J. Electroanal. Chem.</i> , 105:35-42 (1979).						
N								
EXAMINE	?		ATE CONSIDERED	9/98				

INFORMATIO	ON DISCLOSURE	ATTY. DOCKET NO. A-64558-1/RFT/RMS	SERIAL NO. 08/873,597				
OLE	ATION	APPLICANT Kayyem, et al.					
JAN 2 6 1998	O-1449	FILING DATE June 12, 1997	GROUP Not Assigned				
PADEMARKUS O	THER DOCUMENTS (Including A	Author, Title, Date, Pertine	ent Pages, Etc.)				
54 Lee, 6	et al., "Direct Measurement of t 171-773 (1994).	he Forces Between Compl	ementary Strands of DNA," Science,				
1 1 1	enhard, J.R., et al., "Part VII Covalent Bonding of a Reversible- Electrode Reactanbt to Pt Electrodes Using an organosilane Reagent" <i>J. Electronal. Chem.,</i> 78:195-201 (1977).						
56 Lipkir	Lipkin "Identifying DNA by the Speed of Electrons," Science News, 147(8):117 ( 1995).						
synth	Maskos, et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised <i>in situ," Nucleic Acids</i> Research, 20(7):1679-1684 (1992).						
Evide	Mazzocchi, Ph.H. and G. Fritz, "Photolysis of N-(2-Methyl-2-Propenyl)phthalimide in Methanol. Evidence Supporting Radical-Radical Coupling of a Photochemically Generated Radical Ion Pair," Journal of the American Chemical Society, 108(18):5361-5362 (1986).						
	McGee, et al., "2'-Amino-2'-deoxyuridine <i>via</i> an Intramolecular Cyclization of a Trichloroacetimidate," <i>J. Org. Chem.</i> , 61:781-785 (1996).						
	e, T. J., "Driving-Force Effects fied Cytochrome c," J. Am. Che		e Electron Transfer in Ruthenium- (1989).				
	e, T. J., et al., "Electron Transf Ruthenium Donors and Accepto		cific Modification of Duplex DNA L. Engl., 34:352 (1995).				
62 Meste	el, "'Electron Highway' Points to	o Identity of DNA," New S	Scientist, p. 21 (1995).				
	n, et al., "Voltammetric DNA Bio rode," <i>Anal. Chem.,</i> 66:2943-29	*	Based on a Modified Carbon Paste				
	n, K.M., et al., "Covalent Immob coanalysis, 4:929-932 (1992).	oilization of DNA onto Glas	ssy Carbon Electrodes,"				
	Millan, K.M. and Mikkelsen, S.R., "Sequence-Selective Biosensor for DNA Based on Electroactive Hybridization Indicators," <i>Anal. Chem.</i> , 65:2317-2323 (1993).						
N							
XAMINER DATE CONSIDERED 9/18							

INF	ORM	IATION DISCLOSURE	ATTY. DOCKET NO. A-64558-1/RFT/RMS	SERIAL NO. 08/873,597				
101	PE	CITATION	APPLICANT Kayyem, et al.					
JAN 2	6 <b>1998</b>	PTO-1449	FILING DATE June 12, 1997	GROUP Not Assigned				
TA TRA	DEMARK	OTHER DOCUMENTS (Including A	Author, Title, Date, Pertine	ent Pages, Etc.)				
M 54	66	Miller, C., "Absorbed ω-Hydroxy Thio Tunneling to Redox Species in Soluti						
	67	Murphy, C. J., et al., "Long-Range P 262:1025-1029 (1993).	Murphy, C. J., et al., "Long-Range Photoinduced Electron Transfer Through a DNA Helix," <i>Science</i> , 262:1025-1029 (1993).					
	68	Orellana, G., et al., "Photoinduced Electron Transfer Quenching of Excited Ru(II) Polypyridyls Bound to DNA: The Role of the Nucleic Acid Double Helix," <i>Photochemistry and Photobiology</i> , 54(4):499-509 (1991).						
	69	Palecek, "From Polarography of DNA to Microanalysis with Nucleic Acid-Modified Electrodes," Electroanalysis. 8(1):7-14 (1996).						
/	70	Paterson, "Electric Genes: Current Flow in DNA Could Lead to Faster Genetic Testing," Scientific American, 33-34 (May 1995).						
	71	Purugganan, M. D., et al., "Accelerated Electron Transfer Between Metal Complexes Mediated by DNA, Science, 241:1645-1649 (1988).						
	72	Rhodes, D. And A. Klug, "Helical Per 286:573-578 (1980).	iodicity of DNA Determine	d by Enzyme Digestion," Nature,				
	73	Risser, S. M., et al., "Electron Transf Coupling with Donor-Acceptor Distar						
	74	Sato, Y., et al., "Unidirectional Electron undecanethiol on Gold," Bull. Chem.		•				
	75	Satyanarayana, S., et al., "Neither $\Delta$ Classical Intercalation," Biochemistry	•	·				
you	Schreiber, et al., "Bis(purine) Complexes of <i>trans</i> -a <sub>2</sub> Pt <sup>II</sup> : Preparation and X-ray Structures of Bis(9-methyladenine) and Mixed 9-Methyladenine, 9-Methylguanine Complexes and Chemistry Relevant Metal-Modified Nucelobase Triples and Quartets," <i>J. Am. Chem. Soc.</i> 118:4124-4132 (1996).							
EXAMINER	EXAMINER A MONTH MATE CONSIDERED 9/98							

INF	ORM	ATION DISCLOSURE	ATTY. DOCKET NO. A-64558-1/RFT/RMS	SERIAL NO. 08/873,597				
61	PE	CITATION	APPLICANT Kayyem, et al.					
JAN 2	6 1998	PTO-1449	FILING DATE June 12, 1997	GROUP Not Assigned				
Pro TRA	ng MRK O	OTHER DOCUMENTS (Including A	Author, Title, Date, Pertine	nt Pages, Etc.)				
W3CH	77	Schuhmann, W., et al., "Electron Tra Mediators Bound with Flexible Chains (1991).		kidase and Electrodes via Redox J. Am. Chem. Soc., 113:1394-1397				
	78	Successive Doubling of the Molecula	Schumm, et al., "Iterative Divergent/Convergent Approach to Linear Conjugated Oligomers by Successive Doubling of the Molecular Length: A Rapid Route to a 128 Å-Long Potential Molecular Wire," Angew. Chem. Int. Ed. Engl., 33(11):1360-1363 (1994).					
	79	Sigal et al., "A Self-Assembled Monolayer for the Binding and Study of Histidine-Tagged Proteins by Surface Plasmon Resonance," <i>Anal. Chem.</i> , 68(3):490-497 (1996).						
	80		Southern, et al., "Arrays of complementary oligonucleotides for analysing the hybridisation behaviour of nucleic acids," <i>Nucleic Acids Research</i> , 22(8):1368-1373 (1994).					
	81	Strobel, S. A., et al., "Site-Specific Cleavage of a Yeast Chromosome by Oligonucleotide-Directed Triple-Helix Formation," <i>Science</i> , 249:73-75 (1990).						
	82	Su, et al., "Interfacial Nucleic Acid H Phase Acoustic Network Analysis," A		ndom Primer <sup>32</sup> P Labelling and Liquid- ):769-777 (1994).				
	83	Telser, J., et al., "DNA Duplexes Covby Steady-State and Time-Resolved (1989).						
	84	Telser, J., et al., "DNA Oligomers an Tris(2,2'-bipyridine)ruthenium(II): Sy Spectroscopic Measurements," J. Ar.	nthesis and Characterizati	on by Thermodynamic and Optical				
	85	Tour, "Conjugated Macromolecules of Construction of Nanoarchitectures,"		=				
	86	Tour, et al., "Self-Assembled Monolayers and Multilayers of Conjugated Thiols, α-δ-Dithiols, and Thioacetyl-Containing Adsorbates. Understanding Attachments between Potential Molecular Wires and Gold Surfaces," <i>J. Am. Chem. Soc.</i> , 117:9529-9534 (1995).						
m	87	Tullius, T.D. and B.A. Dombroski, "Ir Molecule," <i>Science</i> , 230:679-681 (1		ure the Helical Twist Along Any DNA				
EXAMINER	1		ATE CONSIDERED	9/98				

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INF	ORM	IATION DISCLOSURE	ATTY. DOCKET NO. A-64558-1/RFT/RMS	SERIAL NO. 08/873,597					
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JAN 2 6 199	λC6 30/	PTO-1449	FILING DATE June 12, 1997  GROUP Not Assigned						
THE PROBLEM	TE.	OTHER DOCUMENTS (Including A	Author, Title, Date, Pertine	ent Pages, Etc.)					
MSW	88	Turro, N., et al. "Photoelectron Trans Photochem. Convers. Storage Sol. El							
	89	Turro, N. J., et al., "Molecular Recog Photophysics and Photoinduced Elec DNA," Acc. Chem. Res., 24:332-340	tron Transfer on the Surfa	·					
	90	Mediator for the Reduction of Fe(III)-EDTA in Solution," <i>Electrochemica Acta.</i> , 36(11/12):1799-1801 (1991).							
	91								
	92	Weber, et al., "Voltammetry of Redo Treatment Using the Marcus Relation 3172 (1994).							
	93	Williams, et al., "Studies of oligonucl dangling ends on duplex yield," Nucle							
	94	Winkler, J. R., et al., "Electron Trans (1992).	fer in Ruthenium-Modified	Proteins," Chem. Rev., 92:369-379					
	95	Xu, et al., "Immobilization of DNA or Electrogenerated Chemiluminescent I							
	96	Xu, et al., "Immobilization and Hybrid Thin Film with Electrogenerated Cher (1995).							
	97	Yang, et al., "Growth and Characterion Gold Surfaces," J. Am. Chem. So		bisphosphonate Multilayer Thin Films 193).					
	98	Zhou, et al., "Fluorescent Chemosens Molecular Wire Approach to Increase							
M	99	Mucic et al., "Synthesis and Characteriza Termini: Electrochemical Characteriza Commun., pp. 555-557 (1996).		· · · · · · · · · · · · · · · · · · ·					
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54	101	Complexes 11:8901-89	of Cobalt(III )11 (1989).	) and Iron(II) v	of the Interaction of M with 10-Phenanthrolin	e and	2,2	'-Bipyridine,	" J. Am. Ch	em. Soc.,
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